

ABSTRACT

Digital imaging systems, articles of manufacture, and digital image processing methods are described. According to one aspect, a digital imaging system includes an imaging system configured to provide image data of an image, the image data comprising digital image data for a plurality of pixel locations and processing circuitry configured to process the image data provided by the imaging system to denoise and sharpen the image data, wherein the processing circuitry, for an individual one of the pixel locations, is configured to identify a respective subset of the image data corresponding to the one pixel location and perform a single processing operation using the image data of the identified subset of the image data to denoise and sharpen the image data of the individual one pixel location.